

KUBOTA CORPORATION

EXECUTIVE ORDER U-R-025-0058 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9:

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)							
2002	2KBXL01.3BCD	1.001, 1.335	Diesel	5000							
SPECIAL	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION								
	Indirect Diesel Inje	ection	Loader, Compressor, Other Ind	ustrial Equipment							

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED	EMISSION			E	XHAUST (g/kw-l		OPACITY (%)					
POWER CLASS	STANDARD CATEGORY		HC	NOx	NMHC+Nox	co	PM	ACCEL	LUG	PEAK		
19 ≤ KW < 37	Tier 1	STD	N/A	N/A	9.5	5.5	0.80	20	15	50		
		CERT			5.1	1.6	0.53	11	9	18		

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this

day of November 2001.

R. B. Summerfield, Chief

Mobile Source Operations Division

Engine Model / mmary Form

Manufacturer: KUBOTA Corporation

Engine category: Nonroad Cl

EPA Engine Family: 2KBXL01.3BCD

Mfr Family Name: N/A

Process Code: New Submission

A Hachment

U-R-25-58

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9.Emission Control Device Per SAE J1930	≸	¥ \	A)N	A	≸	¥₩.	*			The second secon	t en			The second secon					manus programme de de marco de de marco				engelyk og syndere en eladesk jambe sam skalle sam en en bleve en en e		
	Jat						1	>																	
8.Fuel Rate: (lbs/hr)@peak torque		12.3	9.6	9.1	8.2	8.9	11.0	9.5			The control of the co				en e				The second secon		A M. HER LAND AND AND AND AND AND AND AND AND AND	NII JANUARAN ANI ANI ANI ANI ANI ANI ANI ANI ANI A	e e e e e e e e e e e e e e e e e e e		
7.Fuel Rate: mm/stroke@peak torque	22.6	21.2	22.5	21.5	21.5	19.8	22.3	21.9										The second section of the sect	77		And the second of the second o		e part term independent i tid i fan i ommitte i Office. Frædstandet til 1861 och frædstande		
6.Torque @ RPM (SEA Gross)	61.0@2200	60.0@2600	59.5@1900	59.7@1900	60.0@1700	54.4@2000	58.6@2200	44.7@2600											-				Comback the property and the comback that the	447	
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	13.7	16.1	11.8	10.9	10.6	11.1	13.1	12.5																	
4.Fuel Rate: mm/stroke @ peak HP (I	20.5	20.0	19,6	18.7	18.2	19.8	21.0	20.7			THE PARTY OF THE P								-						
3.BHP@RPM (SAE Gross)	30.8@3000	36.5@3600	27.2@2700	25.9@2600	25.2@2600	25.3@2500	28.8@2800	27.4@3600		 tables to the state of the stat		Comments of the comments of th						CONTRACTOR OF THE PARTY OF THE			The state of the s	de construido do cada (AF) de ARSO (AF) de Ar			
2.Engine Model	V1305-E	V1305-E	V1305-E	V1305-E	V1305-E	V1305-E	V1305-E	D1005-E		 Type and the same	And the state of t	A DE CONTRACTOR	AND THE PROPERTY OF THE PROPER		The state of the s	Cold, Physics recommend communes a called a called the payment (1) to the cold of the cold of the called the c		The second secon	the control of the co	design of the state of the stat		trapergramment and the state of			THE PARTY NAMED AND ADDRESS OF THE PARTY PARTY NAMED AND ADDRESS OF THE PARTY NAMED AND ADDRE
1.Engine Code	V1305-E1	V1305-E2	V1305-E3	V1305-E4	V1305-E5	V1305-E6	V1305-E7	D1005-E1	The part of the pa						The second secon	the continues of the co		The same of the sa	The state of the s			The second second contract of the second		The second secon	